

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

GGGGTGGCAGTCGGCACCATCAGGCTCCCTTGGCGTTTCGGAGTTTCTCTGTGGTCCCG
ACTCTCCGGAGGATCTCGGTTGTCTCCCAAGTCGGAACCTGGCAGGTCCAGGTTCACTC
GGAGGTCCGGGCTTCCCTCTGTGCCCCGTGCCCTCGCTCCCAGGCTCCCTCTGTGGTGTG
GACTCCTCTAGCCCCGTGCGCTCAGCCCCCTCGCACCCAGCCTCCAGGCACAGAGCCCCGGC
AGGGAGCTCAGCCCTTGTGCCTAGAGCTGCAGTGGCTGGACATGAAGGTTCTCCTGTCC
TGCTTCTCTTTCTTCTGTCTCAGTGCGAGCTACTGAGCAACCGCAGGTCTGCTCACTGAGC
ATCCCAGCATGGAGGCAGCCCTGACCGGGCCCAACGCCTCCTCGCACTTCTGGGCCAACT
ACACTTTTCTCTGACTGGCAGAACTTCGTGGGCAGGAGACGTTATGGGGCCGAGTCCCAGA
ACCCACCGGTGAAAGCACTGCTCATCGTGGCCTACTCATTACCATCGTCTTCTCGCTCT
TCGGTAATGTCTGGTCTGTCTATGTCTCTTCAAGAACCAGCGCATGCACTCGGCCACCA
GCCTCTTCAATTGTCAACCTGGCAGTGGCGGACATCATGATCACATTGCTCAACACGCCCT
TCACTTTGGTCCGCTTTGTGAACAGCACATGGGTGTTTGGGAAGGGCATGTGTCTATGTCA
GTCGCTTTGCTCAGTACTGTTCTCTACATGTCT**CAGCACTGACTCTGACAGCTATCGCAG**
TGGACCGCCACCAGGTCTCATGTCATCCACTGAAGCCTCGGATCTCCATCACCAAGGGTG
TCATATATATTGCTGTCTATCTGGGTCATGGCTACCTTCTTCTCTCTGCCACATGCCATCT
GCCAGAAACTGTTTACCTTCAAGTACAGTGAGGACATTGTGCGCTCCCTCTGCCTGCCGG
ACTTCCCGGAGCCAGCTGACCTCTTCTGGAAGTATCTGGACCTGGCCACCTTCATCTGCT
TCTACCTACTTCCACTCTTCAATTATCTCAGTGGCCTATGCTCGTGTGGCCAAGAAGCTGT
GGCTCTGTAACACCAATTGGCGACGTGACCACAGAGCAGTACCTCGCCCTGCGACGCAAGA
AGAAGACCACCGTGAAGATGCTGGTGTCTGTGGTAGTCCTCTTTGCCCTCTGCTGGTTCC
CTCTCAACTGCTATGCTCTCCTCTTGTCCAGCAAGGCCATCCACACCAACAATGCCCTCT
ACTTTGCCCTTCCACTGGTTTGCCATGAGCAGTACTTGTTATAACCCCTTCATCTACTGCT
GGCTCAATGAGAACTTTAGGGTTGAGCTTAAGGCATTGCTGAGCATGTGCCAAAGGCCAC
CCAAGCCGCAGGAAGACAGGCTACCTTCCCCAGTTCTTCTCCTTCAGGGTGGCATGGACAG
AGAAGAGCCATGGTTCGGAGGGCTCCACTACCTAATCACCACTTGCCCTCTTCCCAGATCC
AGTCTGGGAAGACAGATCTGTCTATCTGTGGAACCCGTTGTGGCCATGAGTTAGGGAAAGC
TGGAAGTTGGTGGGGGAGGGTTCTTTCTCTCACAAATTGACCAGACACTAACAGAGTTGG
AAAGTAACACAGAAGCAGTGAGATGCTTGGGTCTTAGGAACCTGTCCAGCCCCATCTGA
TTTGCAAACCTTTCTAGAAGATGCCATGAGGTGGTGTGTGTAGATCTTTGAGCAAGAGCTC
TGGAACACCTCAGCTTCAACAGAGGCTGGTCCAGTCAACCACCTCCAATTGTGTAGCA
TCTGCCACCTTGCCCTTCTTACTGCTGAGCAACCACAGGGGGACTTGAGCCATACTATTG
GTGGGCCTGCCCCACATGCTCAGAAAAGAACAGGCACAAAGGCTTTCTGAAGTCATTGGA
ACAGGAATAATCACACAGCTTCACTGACCTTGGCTCTATCCATGACCAGACAGGACCCAT
TTTGGCTTCTTAAAAACAAAGAGAAATTAGTATTGCCACTTTGAAAAGTTTCAGAAAAGTA
AAGAAATGAGTTCAGCCCTCAATTTGTAAAAAAGGAAAAAAGAAAAAAGAAAAAAG
AAAGAAAAAGCCTGTTAATATGCTGTAAATTTATCTGTAGCTTTGCCTTCTGTGTGTGT
ACATTTGTACTTTTAAAAATCCTGAACGTGTCATGTAGATTGTAATAATTAGCAA
GAAACTGGAATATATCAGAGTATTATTGAATTC

Figure 2A

Gene Sequence
Structure *

299 bp

Sequence Deleted

753 bp

Size of partial
cDNA: 2253 bp



Targeting Vector* (genomic sequence)

Construct Number: 463

Arm Length:

5': 2.5 kb

3': 0.6 kb

Targeting Vector

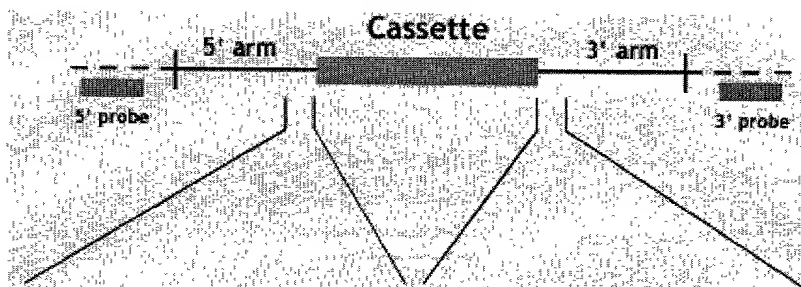
Targeting Vector

Endogenous Locus

Not drawn to scale

LacZ-Neo

Cassette



5' >CTGGCACGGTCCAGGTTCACT
CGGAGGCCCGGGCTTCCTCTGTGC
CCCGTGCCCTCGCTCCCTGGCTC
CCTCTGTGGTGTGGACTCCTCTAG
CCCGGTGCGCTCAGCCCCCTCGCAC
CCAGCCTCCAGGCACAGAGCCCGG
CAGGGAGCTCAGCCCTTGTGCCTA
GAGCTGCAGTGGCTGGACATGAAG
GTTTCTCCTGT<3'
(SEQ ID NO:3)

5' >CAGCACTGACTCTGACAGCTA
TCGCAGTGGACCGCCACCAGGTGA
GAGCACCTGTCCCCAGCAGCATGC
TCCCATCTCCGTCTATGCCTGGCT
GGCTGGTGGGAATACTGCCACCAC
GGTCTGTAGGAATACTCTCAGGA
CAGTGACTCATTCAGTCCCGCTGA
CAGCGTGTGTGCTTGCCTCCTTGT
TGATCAATTTG<3'
(SEQ ID NO:4)

Figure 2B